ADDICTION RESEARCH CENTER

FY 1997 APPROPRIATION ESTIMATE.....$O
(NIDA to pay renovation costs of $650,000)

SPACE JUSTIFICATION DOCUMENT

Institute/Center/Division: NIDA

Date of Request: l/3/95 (Previously submitted 12/10/93)

I. Project Description and Scope

A. Kind and amount of Space Requested

KIND OF SPACE	APPROX. SQ. FT.	COMMENTS
Admin. Office:	N/A	
Research:		
Lab	2,500	
Lab Support		
Lab Office		
Animal:	N/A	
Procedure		
Holding		
Clinical:	N/A	
In-patient		
Out-patient		
General Service:	N/A	

B. Program Type:

Existing Program:	X	Convert existing space to a BL3 Lab
Expansion:	N/A	
Space Trade to allow relocation:	N/A	
Continued Use:	X	
New Program:		
Authorizing Law or PHS Act:	N/A	
New ICD initiative:	N/A	

C. Date Space is Needed: October 1997

D. Description of Program Activity (including name of and type of functions performed by office/lab/branch).

(See Attachment - Program Justification Document originallly submitted for this project in December 1993)

E. Are there any location requirements? If so, justify the require location.

(See Attachment - Program Justification Document originallly submitted for this project in December 1993)

II. Programmatic Justification for Space Request:

This is not request space for new programs. This is a request to renovate existing space to accommodate a new BL3 laboratory. The cost of the renovations are approximately $650,000.

III. Explain why current ICD space cannot be used to accommodate proposed program:'

Current ICD space is to be used for this request.

IV. Staffing:

This new BL3 facility will be accessible to approximately 130 ARC staff.

Document Id: nida-arc

VII., Estimated project costs

A. Site development:
B. Design: $9,000
C. Construction: approximately $30.00 per sq: ft. for annual lease cost, based on GSA office space (including initial alterations) = $180,000. In addition, the GSA above standard cost will be an estimated $150,000 to include specialized flooring, additional rest room and shower requirements.

Total: approximately $160,000 excluding annual lease costs.

VIII. Estimated design and construction schedule:

Design: two months
Construction: four months

RESUBMITTED FOR FY 1997
SUBMITTED DECEMBER 10, 1993

National Institutes of Health

PROGRAM JUSTIFICATION DOCUMENT

Project title and location:
BL3 Laboratory for the Addiction Research Center, National Institute on Drug Abuse.

Date:

I. Project description and scope

A. Project type

New construction	
Renovation	X
New leased space	
Expansion of existing leased space	____
Renewal of expiring lease	

Will lease include renovation or new construction? Yes X____ No ____

B. Program functions:

This project is for the Addiction Research Center (ARC), National Institute on Drug Abuse (NIDA). The ARC is the intramural research program of NIDA which is responsible for Carrying out research on the problems concerning the causes of drug abuse as wall as the means of treating drug abusers. The ARC consist6 of five research branches, Medical Affairs, Administrative Services and the Office of the Director. The ARC facilities include the primary research program housed in the "C" building, the expanded out-patient, in-patient and PET facility in the "G" building, and the expansion of the Preclinical and Neuroscience programs in the TRIAD center. All facilities are located on the Francis Scott Key Medical Center Campus (FSK), Baltimore, MD.

C. Program type:

Existing program	
Replacement facility w/o expansion	NO
Consolidation of scattered elements	NO
New program	NO

Authorizing Public Law or appropriate part of the PHS Act is:

II. Justification for program

A. Why program is necessary:

The BL3 laboratory will be used to perform research with indigenous or exotic agents which may cause serious or potentially lethal disease in humans as a result of exposure by the inhalation route. No such **facility exists** at ARC at present, limiting the ability of investigators to perform many promising studies with unique agents. The facility created would provide two separate protected work areas, in order to allow simultaneous use for two distinct research efforts.

B. Short term goals:

The short-term goal is to provide BL-3 laboratory capability for the Addiction Research Center.

c. Long term goals:

Over the past 3-4 years, the ARC has obtained clinical substance abuse characterization information and genotype information at one or several genetic loci from over 600 individuals, at least 400 of which were studies at the ARC. The genetic information, however, is based only on the amount of DNA that could be extracted from the white blood cells in 7-20 ml of blood. In order to detect most of the genes likely to contribute to substance abuse vulnerability, more ambitious genome scanning approaches are necessary. These require the immortalization of human leucocyte from individuals with characterized substance abuse histories. The proposed facility will make the development of such cell lines possible, enabling the intended genome scanning approaches.

D. Expected benefits of providing facilities:

New facility will allow for safe handling of higher risk biohazardous agents, for which current facilities are inadequate.

E. Actual workload for the program: N/A

P. Projected workload for the program: N/A

III. Consideration of alternatives/justification for proposed solution

A. Why program is a proper function of the Federal Government (include whether grant or contract mechanisms were considered):

The proposed facility is a logical extension of an ongoing federal ARC program. Use of the contract or grant mechanism to provide the service functions of the proposed laboratory would (1) present a significant opportunity for human subject confidentiality to be breached, (2) would not guarantee specimen integrity, and (3) would require additional transportation and handling of human sera with high potential for being HIV-positive.

B. Evidence of consideration of utilizing and/or redirecting present resources to solve the program needs:

As existing space is not configured to accommodate the proposed program, current space must be renovated to meet CDC/OSHA requirements for BL3 facilities.

C. If a replacement facility is proposed, explain why a modernization or addition would not satisfy the need: N/A

D. Explain why present space cannot be used to accommodate proposed program:

See III B Above

IV. Staffing and operating costs

A. Number of staff positions:
Existing: 130* Redirected:
New:

*This new BL3 facility will be accessible to appropriate ARC Staff

B. Operating budgets during first year
Present budget: N/A
New budget: N/A

C. If Staff is existing or being relocated, identify plans for the vacated apace if requested, and the justification for retaining that space, i.e., utilization rate and backfill:

N/A

V. Facilities summary data

A. The site

Proposed location: 4th floor East Wing of the "C" building

Size of site: Approximately 2500 sq. ft.
Description: Existing mechanical space, concrete and masonry walls/floor, plus adjacent office area of similar construction.

Site constraints: Must relocate existing offices (approx. 1000 sq. ft.) and 2 exhaust fan units.

Reasons for selection:

This is *only* space available that is compatible with program use. Necessary isolation and mechanical services are available. Configuration of space appears suitable for common anteroom serving two separate containment areas.

B. The facility

Gross SF: 1800 sq. ft.

Net SF: 1500 sq. ft.

Breakdown of main functions within the Net SF: Manipulation of BL3 infectious agents. Storage of related samples.

Possible configuration of facility: Single anteroom feeding two adjacent containment areas, with common wall between the contained areas, plus sharing of selected anteroom equipment.

Special features or special equipment: Must conform to requirements for BL3 laboratories, including directional air flow, HEPA-filtered exhaust air, interlocked automatic doors, key-card access devices, airflow loss alarms, scrubable walls/ceilings/floor, Must be fully sealable for decontamination with formaldehyde gas. CO2 and LN2 to be provided from areas adjacent to anteroom. Each containment area will. require biosafety cabinet, chemical fume hood, centrifuges, incubators, shaking water baths, inverted microscope, emergency shower, sprinklers, refrigertor, access to dedicated autoclave, ability to contain spilled liquids, etc.